

**AMENDMENTS TO THE CLAIMS:**

Replacement Claim Set:

139-141. (Canceled)

142. (Currently amended) ~~The sheath of Claim 141~~ A sheath comprising a hollow body, the sheath being adapted to removably cover at least part of an implantable medical device that carries a therapeutic substance, wherein the sheath material prevents the therapeutic substance from significantly absorbing into the sheath, wherein the sheath material has an oxygen transmission rate of not more than 200 cc/100 in<sup>2</sup> for 1 mil per 24 hours at 73°F, 75% relative humidity and 1 atmosphere, and wherein the sheath material has a water vapor transmission rate of not more than 20 gm/100 in<sup>2</sup> for 1 mil per 24 hrs. 100°F 90% relative humidity and 1 atm,

wherein the implantable object is a balloon integrated with a catheter,

wherein the balloon material, sheath material, or both comprise the same or different polymeric material,

wherein the polymeric material comprises a polyurethane having a glass transition temperature above a storage temperature.

143. (Currently amended) ~~The sheath of Claim 141~~ A sheath comprising a hollow body, the sheath being adapted to removably cover at least part of an implantable medical device that carries a therapeutic substance, wherein the sheath material prevents the therapeutic substance from significantly absorbing into the sheath, wherein the sheath material has an oxygen transmission rate of not more than 200 cc/100 in<sup>2</sup> for 1 mil per 24 hours at 73°F, 75% relative humidity and 1 atmosphere, and wherein the sheath material has a water vapor transmission rate of not more than 20 gm/100 in<sup>2</sup> for 1 mil per 24 hrs. 100°F 90% relative humidity and 1 atm,

wherein the implantable object is a balloon integrated with a catheter,

wherein the balloon material, sheath material, or both comprise the same or different polymeric material,

wherein the polymeric material comprises a polyurethane having a non-polar soft segment wherein the non-polar soft segment is selected from hydrocarbons, silicones, fluorosilicones, or their mixtures.

144-146. (Canceled)

147. (Currently amended)~~The sheath of Claim 146~~ A sheath comprising a hollow body, the sheath being adapted to removably cover at least part of an implantable medical device that carries a therapeutic substance, wherein the sheath material prevents the therapeutic substance from significantly absorbing into the sheath, wherein the sheath material has an oxygen transmission rate of not more than 200 cc/100 in<sup>2</sup> for 1 mil per 24 hours at 73°F, 75% relative humidity and 1 atmosphere, and wherein the sheath material has a water vapor transmission rate of not more than 20 gm/100 in<sup>2</sup> for 1 mil per 24 hrs. 100°F 90% relative humidity and 1 atm,

wherein the implantable object is a balloon integrated with a catheter,

wherein the balloon material, sheath material, or both comprise the same or different polymeric material,

wherein the balloon material, sheath material, or both comprise a therapeutic substance contacting surface,

wherein the therapeutic substance contacting surface contacts a coating comprising a main-group-element oxide.

148-154. (Canceled)